The new Q.POWER-G5 is the result of the continued evolution of our polycrystalline solar modules. Thanks to improved power yield, excellent reliability and high-level operational safety, the new Q.POWER-G5 generates electricity at a low cost (LCOE) and is suitable for a wide range of applications.

**SUPERIOR YIELD**
High power output thanks to advanced 6-busbar technology and outstanding performance under real-life conditions (available with double current sorting).

**LOW LEVELISED COST OF ELECTRICITY**
Higher yield per surface area, lower BOS costs, higher power classes and an efficiency rate of up to 17.4%.

**INNOVATIVE ALL-WEATHER TECHNOLOGY**
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

**EXTREME WEATHER RATING**
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

**MAXIMUM COST REDUCTIONS**
Lower logistics costs due to higher module capacity per box.

**A RELIABLE INVESTMENT**
Inclusive 12-year product warranty and 25-year linear performance warranty.

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1. See data sheet on rear for further information.

**THE IDEAL SOLUTION FOR:**
- Rooftop arrays on residential buildings
- Ground-mounted solar power plants
- Rooftop arrays on commercial/industrial buildings

Engineered in Germany
MECHANICAL SPECIFICATION

**Format**
1650 mm × 991 mm × 35 mm (including frame)

**Weight**
18 kg ± 5%

**Front Cover**
3.2 mm thermally pre-stressed glass with anti-reflection technology

**Back Cover**
Multi-layer composite sheet

**Frame**
Anodised aluminium

**Cell**
6 × 10 polycrystalline solar cells

**Junction box**
Protection class IP67, with bypass diodes

**Cable**
4 mm² Solar cable; (+) ≥ 1000 mm, (−) ≥ 1000 mm

**Connector**
Tonglin TL-Cable01S, IP67

ELECTRICAL CHARACTERISTICS

**Power Class**
260 265 270 275 280

**Minimum Performance at Standard Test Conditions, STC**

<table>
<thead>
<tr>
<th>Power at MPP²</th>
<th>260</th>
<th>265</th>
<th>270</th>
<th>275</th>
<th>280</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Circuit Voltage*</td>
<td>V_{OC} [V]</td>
<td>37.7</td>
<td>38.0</td>
<td>38.1</td>
<td>38.3</td>
</tr>
<tr>
<td>Voltage at MPP*</td>
<td>V_{MPP} [V]</td>
<td>30.8</td>
<td>30.9</td>
<td>31.1</td>
<td>31.3</td>
</tr>
<tr>
<td>Efficiency²</td>
<td>η [%]</td>
<td>≥15.9</td>
<td>≥16.2</td>
<td>≥16.5</td>
<td>≥16.8</td>
</tr>
</tbody>
</table>

**Minimum Performance at Normal Operating Conditions, NOC³**

<table>
<thead>
<tr>
<th>Power at MPP²</th>
<th>191</th>
<th>195</th>
<th>199</th>
<th>202</th>
<th>206</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current*</td>
<td>I_{SC} [A]</td>
<td>7.32</td>
<td>7.44</td>
<td>7.47</td>
<td>7.50</td>
</tr>
<tr>
<td>Open Circuit Voltage*</td>
<td>V_{OC} [V]</td>
<td>35.4</td>
<td>35.6</td>
<td>35.7</td>
<td>35.9</td>
</tr>
<tr>
<td>Voltage at MPP*</td>
<td>V_{MPP} [V]</td>
<td>28.3</td>
<td>28.4</td>
<td>28.6</td>
<td>28.8</td>
</tr>
</tbody>
</table>

¹1000 W/m², 25 °C, spectrum AM 1.5 G ²Measurement tolerances STC ± 3 %; NOC ± 5 % ³800 W/m², NOCT, spectrum AM 1.5 G * typical values, actual values may differ

Q CELLS PERFORMANCE WARRANTY

At least 97.5 % of nominal power during first year. Thereafter max. 0.7 % degradation per year.

At least 91.2 % of nominal power up to 10 years.

At least 82.0 % of nominal power up to 25 years.

All data within measurement tolerances, full warranties in accordance with the warranty terms of the Q CELLS sales organization of your respective country.

TEMPERATURE COEFFICIENTS

| Temperature Coefficient of I_{SC} | α [%/K] | +0.05 |
| Temperature Coefficient of V_{OC} | γ [%/K] | -0.40 |
| Temperature Coefficient of P_{MPP} | β [%/K] | -0.31 |
| Normal Operating Cell Temperature | NOCT [°C] | 45 ± 3 |

PROPERTIES FOR SYSTEM DESIGN

| Maximum System Voltage | V_{MAX} [V] | 1000 |
| Maximum Reverse Current | I_{R} [A] | 20 |
| Wind/Snow Load | (Pa) | 4000/5400 |

QUALIFICATIONS AND CERTIFICATES

IEC 61215, IEC 61730, Conformity to CE, Application Class A

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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Made in China
Engineered in Germany